

IN THE CLAIMS

1. (currently amended) A folded dipole comprising a fed dipole fed at a center of the fed dipole and a passive dipole shorted at a center of the passive dipole, the fed dipole and passive dipole separated by a gap and connected at ends of the fed dipole and passive dipole, the folded dipole having an axis of propagation comprising defining a dipole axis and , the folded dipole comprising a pair of arms which together have a profile which is concave on one side and convex on the other when viewed along the dipole axis.
2. (original) A folded dipole according to claim 1 wherein the arms are at least partially curved.
3. (original) A folded dipole according to claim 2 wherein the arms have curved portions which have a substantially constant radius of curvature.
4. (original) A folded dipole according to claim 2 wherein the arms are at least partially curved in a plane substantially orthogonal to the dipole axis.
5. (previously presented) A folded dipole according to claim 1 wherein the pair of arms meets at a corner.
6. (original) A folded dipole according to claim 5 wherein the corner subtends an angle lying in the range of 80° to 100°.
7. (original) A folded dipole according to claim 5 wherein each arm is substantially straight.
8. (original) A folded dipole according to claim 5 wherein the corner is truncated.
9. (original) A folded dipole according to claim 1 further comprising an input section coupled to a concave side of the pair of arms.

10. (original) A folded dipole according to claim 1 wherein the pair of arms are formed of sheet material.
11. (original) A folded dipole according to claim 10 wherein both arms are formed from the same sheet.
12. (original) A folded dipole according to claim 1 further comprising a first feed leg coupled to one of the arms and a second feed leg coupled to the other arm.
13. (original) An antenna comprising a ground plane; and a folded dipole according to claim 1 arranged with its dipole axis directed away from the ground plane.
14. (original) A base station including an antenna according to claim 13.
15. (original) A communication system including a network of base stations according to claim 14.
16. (currently amended) A dipole box comprising two or more folded dipoles arranged around a central region, each folded dipole comprising a fed dipole fed at a center of the fed dipole and a passive dipole shorted at a center of the passive dipole, the fed dipole and the passive dipole separated by a gap and connected at the ends of the fed dipole and the passive dipole, the folded dipole having a dipole axis and a pair of arms which together have a profile which is concave on one side and convex on the other when the dipole box is viewed in plan.
17. (original) A dipole box according to claim 16 wherein each pair of arms has a curved portion with a centre of curvature which is located in the central region.
18. (original) A dipole box according to claim 16 comprising four or more folded dipoles arranged around the central region.

19. (original) A dipole box according to claim 18 wherein the dipoles are arranged as orthogonally opposed pairs.

20. (previously presented) A dipole box according to claim 19 wherein each pair of dipoles is oriented to radiate at about $\pm 45^\circ$ polarization with respect to vertical.

21-106. (previously canceled)